



PTO/SB/08A (08-03)

Approved for use through 07/31/2008. OMB 0851-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

**Complete if Known**

Application Number	10/780,948
Filing Date	February 17, 2004
First Named Inventor	Mark D. Erion
Art Unit	1614
Examiner Name	Patrick T. Lewis
Attorney Docket Number	MET-016XDT

Sheet

1

of

2

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
PL	U1	US-6,756,360	06-29-2004	Erion <i>et al.</i>	All
	U2	US-6,919,322	07-19-2005	Bookser <i>et al.</i>	All
	U3	US-6,965,033	11-15-2005	Jiang <i>et al.</i>	All
	U4	US-6,967,193	11-22-2005	Dang <i>et al.</i>	All
	U5	US-6,284,748	09-04-2001	Dang <i>et al.</i>	All
	U6	US-6,489,476	12-03-2002	Dang <i>et al.</i>	All
	U7	US-6,110,903	08-29-2000	Kasibhatla <i>et al.</i>	All
V PL	U8	US-6,399,782	06-04-2002	Kasibhatla <i>et al.</i>	All
	U9	US-2005/0176684	08-11-2005	Bookser <i>et al.</i>	All

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
PL I V PL	F1	WO 06/023515 CD-ROM	03-02-2006	Metabasis Therapeutics	All	
	F2	WO 00/14095 CD-ROM	03-16-2000	Metabasis Therapeutics	All	
	F3	WO 00/38666 CD-ROM	07-06-2000	Metabasis Therapeutics	All	
	F4	WO 01/47935 CD-ROM	07-05-2001	Metabasis Therapeutics	All	
	F5	WO 01/66553 CD-ROM	09-13-2001	Metabasis Therapeutics	All	

Examiner  
SignatureDate  
Considered

7-22-07

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard T.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08A (08-03)  
Approved for use through 07/31/2008. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			<b>Complete if Known</b>		
			Application Number	10/780,948	
			Filing Date	February 17, 2004	
			First Named Inventor	Mark D. Erion	
			Art Unit	1614	
			Examiner Name	Patrick T. Lewis	
Sheet	2	of	2	Attorney Docket Number	MET-016XDT

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
PL	U10	US-2003/0073728	04-17-2003	van Poelje <i>et al.</i>	All
PL	U11	US-2005/0004077	01-06-2005	Jiang <i>et al.</i>	All
PL	U12	US-2004/0058892	03-25-2004	Dang <i>et al.</i>	All
	U13	US-			
	U14	US-			
	U15	US-			
	U16	US-			
	U17	US-			
	U18	US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
PL	F6	WO 02/03978 CD-ROM	01-17-2002	Metabasis Therapeutics	All	
	F7					
	F8					
	F9					
	F10					
	F11					
	F12					

Examiner Signature	<i>Patrick T. Lewis</i>	Date Considered	7-22-07
--------------------	-------------------------	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard T.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

**Complete if Known**

Application Number	10/780,948
Filing Date	February 17, 2004
First Named Inventor	Mark D. Erion
Art Unit	1614
Examiner Name	
Attorney Docket Number	MET-016XDT

Sheet	1	of	6
-------	---	----	---

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
PK ↓ PL	U1	US-4,278,791	07-14-1981	Botta et al.	All
	U2	US-5,342,850	08-30-1994	Ohnota et al.	All
	U3	US-6,147,101	11-14-2000	Maeda et al.	All
	U4	US-5,728,704	03-17-1998	Mylari et al.	All
	U5	US-6,054,587	04-25-2000	Reddy et al.	All
	U6	US-6,294,672	09-25-2001	Reddy et al.	All
	U7	US-6,312,662	11-06-2001	Erion et al.	All
	U8	US-			
	U9	US-			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
PK ↓ PL	F1	EP 0354322	06-16-1989	American Cyanamid Company	All	
	F2	WO 99/47549	09-23-1999	Ontogen Corp.	All	
	F3	WO 99/45016	09-10-1999	Metabasis Therapeutics Inc.	All	
	F4	WO 00/27401	05-18-2000	Warner-Lambert Co.	All	
	F5	WO 01/52825	07-26-2001	Novartis AG	All	
	F6	WO 90/08155	07-26-1990	Board of Regents- University of Texas	All	
	F7	WO 90/10636	09-20-1990	Board of Regents- University of Texas	All	

Examiner  
SignatureDate  
Considered

7-22-07

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard T.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/780,948		
		Filing Date	February 17, 2004		
		First Named Inventor	Mark D. Erion		
		Group Art Unit	1614		
Examiner Name					
Sheet	2	of	6	Attorney Docket Number	MET-016XDT

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
R	R1	AZEN, S.P., <i>et al.</i> , "TRIPOD (TROglitazone In the Prevention of Diabetes): A Randomized, Placebo-Controlled Trial of Troglitazone in Women with Prior Gestational Diabetes Mellitus," <i>Controlled Clinical Trials</i> , Vol. 19, Issue 2, Pages 217-231, Elsevier B.V. (April 1998).	
	R2	CHIASSEON, J.-L., <i>et al.</i> , "Acarbose for the prevention of Type 2 diabetes, hypertension and cardiovascular disease in subjects with impaired glucose tolerance: facts and interpretations concerning the critical analysis of the STOP-NIDDM Trial data," <i>Diabetologia</i> , 47: 969-975, Springer-Verlag (2004).	
	R3	DELORME, S., <i>et al.</i> , "Acarbose in the prevention of cardiovascular disease in subjects with impaired glucose tolerance and type 2 diabetes mellitus," <i>Current Opinion in Pharmacology</i> , 5:184-189, Elsevier (2005).	
	R4	DICKSON, J.K. <i>et al.</i> , "Orally Active Squalene Synthase Inhibitors: Bis((acyloxy)alkyl) Prodrugs of the $\alpha$ -Phosphonosulfonic Acid Moiety" <i>J. Med. Chem.</i> 39: 661-664 American Chemical Society (1996).	
	R5	EGRON, D. <i>et al.</i> , "Synthesis and Anti-HIV Activity of Some S-Acyl-2-Thioethyl (Sate) Phosphoramidate Derivatives of 3'-Azido-2',3'Dideoxythymidine" <i>Nucleosides &amp; Nucleotides</i> 18(4&5): 981-982 Marcel Dekker, Inc. (1999).	
	R6	ERION, M.D. <i>et al.</i> , "Computer-Assisted Scanning of Ligand Interactions: Analysis of the Fructose 1,6-Bisphosphatase-AMP Complex Using Free Energy Calculations" <i>J. Am. Chem. Soc.</i> 122: 6114-6115 American Chemical Society (2000).	
	R7	ERION, M.D. and REDDY, M.R. "Ligand Interaction Scanning Using Free Energy Calculations" <i>Free Energy Calculations in Rational Drug Design</i> , Chapter 11, 225-241 Springer-Verlag (2001).	
	R8	ERION, M.D. <i>et al.</i> , "MB06322 (CS-917): A Potent and Selective Inhibitor of Fructose 1,6-Bisphosphatase for Controlling Gluconeogenesis in Type 2 Diabetes" <i>PNAS</i> 102(22): 7970-7975 (May 31, 2005).	
	R9	FISHER, J.S. <i>et al.</i> , "Glucose transport rate and glycogen synthase activity both limit skeletal muscle glycogen accumulation," <i>The American Journal of Physiology Endocrinol. Metab.</i> , Vol. 282, pp. E1214-E1221, American Physiological Society (June 2002).	
R	R10	FUJIWARA, T. <i>et al.</i> , "Suppression of Hepatic Gluconeogenesis in Long-Term Troglitazone Treated Diabetic KK and C57BL/KsJ-db/db Mice" <i>Metabolism</i> 44(4): 486-490 (April 1995).	

Examiner Signature	<i>Patricia Law</i>	Date Considered	7-22-07
--------------------	---------------------	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/780,948
				Filing Date	February 17, 2004
				First Named Inventor	Mark D. Erion
				Group Art Unit	1614
				Examiner Name	
Sheet	3	of	6	Attorney Docket Number	MET-016XDT

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
PC	R11	GIDH-JAIN, M. <i>et al.</i> , "The Allosteric Site of Human Liver Fructose-1,6-Bisphosphatase" <i>Journal of Biological Chemistry</i> , 269(44): 27732-27738 The American Society for Biochemistry and Molecular Biology, Inc. (1994).	
	R12	HOLMAN, R.R. "Assessing the potential for $\alpha$ -glucosidase inhibitors in prediabetic states," <i>Diabetes Research and Clinical Practice</i> , Vol. 40, Supp. 1, Pages S21-S25, Elsevier Ireland Ltd. (July 1998).	
	R13	HULLEY, S. <i>et al.</i> , "Randomized Trial of Estrogen Plus Progestin for Secondary Prevention of Coronary Heart Disease in Postmenopausal Women," <i>J. of Am. Medical Assoc.</i> , Vol. 280, No. 7, pp. 605-613 (August 19, 1998).	
	R14	INZUCCHI, S.E. <i>et al.</i> , "Efficacy and Metabolic Effects of Metformin and Troglitazone in Type II Diabetes Mellitus" <i>N.E. Journal of Medicine</i> 338(13): 867-872 Massachusetts Medical Society (March 26, 1998).	
	R15	LINK, J.T. <i>et al.</i> , "Pharmacological regulation of hepatic glucose production," <i>Curr. Opin. Investig. Drugs</i> , 4(4):421-429 (April 2003).	
	R16	MAGGS, D.G. <i>et al.</i> , "Metabolic Effects of Troglitazone Monotherapy in Type 2 Diabetes Mellitus" <i>Annals of Internal Medicine</i> 128(3): 176-185 American College of Physicians (February 1, 1998).	
	R17	OKUNO, A. <i>et al.</i> , "CS-917, a Fructose 1,6-Bisphosphatase (FBPase) Inhibitor, Suppresses Gluconeogenesis In Vitro and In Vivo by a Different Mechanism than Metformin" poster presented at The American Diabetes Association 66 <sup>th</sup> Scientific Session, Washington, DC (June 2006).	
	R18	PICKAVANCE, L. <i>et al.</i> , "The Development of Overt Diabetes in Young Zucker Diabetic Fatty (ZDF) Rats and the Effects of Chronic MCC-555 Treatment" <i>British Journal of Pharmacology</i> , 125: 767-770 Stockton Press (1998).	
✓	R19	POTTER, S.C. <i>et al.</i> , "Effect of MB06322, a Potent and Selective Inhibitor of Fructose 1,6-Bisphosphatase, on Gluconeogenesis in the ZDF Rat as Assessed by the Deuterated Water Technique" <i>DIAEAZ</i> 52(2): A364, Journal of the American Diabetes Association Abstract No. 1516-P, American Diabetes Association (June 2004).	
PK	R20	POTTER, S.C. "Evidence Implicating Gluconeogenesis Inhibition as the Mechanism by Which MB06322 Lowers Blood Glucose In Vivo" <i>DIAEAZ</i> 52(2): A364, Journal of the American Diabetes Association Abstract No. 1517-P, American Diabetes Association (June 2004).	

Examiner Signature	<i>Natasha L...</i>	Date Considered	7-22-07
--------------------	---------------------	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/780,948
				Filing Date	February 17, 2004
				First Named Inventor	Mark D. Erion
				Group Art Unit	1614
				Examiner Name	
Sheet	4	of	6	Attorney Docket Number	MET-016XDT

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
PK	R21	PRISANT, L.M., "Preventing Type II Diabetes Mellitus," <i>J. Clin. Pharmacol.</i> , 44:406-413, American College of Clinical Pharmacology (2004).	
1	R22	REDDY, M.R. and ERION, M.D. "Computer Aided Drug Design Strategies Used in the Discovery of Fructose 1,6-Bisphosphatase Inhibitors" <i>Current Pharmaceutical Design</i> 11: 283-294 Bentham Science Publishers Ltd. (2005).	
	R23	REDDY, K.R. <i>et al.</i> , "Discovery of 2-Aminopyridine Inhibitors of FBPase" abstract for the 230 <sup>th</sup> National American Chemical Society (ACS) Meeting, Washington, DC, Aug./Sept. 2005, ACSMED1 Program and Abstract Book Archives, pp. 197-198, MEDI 323, obtained from <a href="http://oasys.acs.org/acs/230nm/medi/staff/separates.cgi">http://oasys.acs.org/acs/230nm/medi/staff/separates.cgi</a> 8/8/2005.	
	R24	REDDY, M.R. and ERION, M.D. "Fructose 1,6-Bisphosphatase: Use of Free Energy Calculations in the Design and Optimization of AMP Mimetics" <i>Free Energy Calculations in Rational Drug Design</i> , Chapter 14, 285-297 Springer-Verlag (2001).	
	R25	SATHYAPRAKASH, R. <i>et al.</i> , "Preventing Diabetes by Treating Aspects of the Metabolic Syndrome," <i>Current Diabetes Reports</i> , 2:416-422, Current Science Inc. (2002).	
	R26	SREENAN, S. <i>et al.</i> , "Prevention of Hyperglycemia in the Zucker Diabetic Fatty Rat by Treatment with Metformin or Troglitazone" <i>Am. J. Physiol.</i> 271 (Endocrinol. Metab. 34): E742-E747 American Physiological Society (1996).	
	R27	SRIVASTVA, D.N. and FARQUHAR, D. "Bioreversible Phosphate Protective Groups: Synthesis and Stability of Model Acyloxymethyl Phosphates" <i>Bioorganic Chemistry</i> 12: 118-129 Academic Press, Inc. (1984).	
	R28	TORRES, T. <i>et al.</i> , "Inhibition of glycogen phosphorylase suppresses basal and glucagon-induced glucose production and increases glucose uptake in the liver of conscious dogs" (Integrated Physiology—Liver 1484-P), <i>Diabetes</i> , Vol. 52 i6, p. A343, American Diabetes Association (June 2003).	
↓	R29	TRISCARI, J. <i>et al.</i> , "Multiple Ascending Doses of CS-917, a Novel Fructose 1,6-Bisphosphatase (FBPase) Inhibitor, in Subjects with Type 2 Diabetes Treated for 14 Days" poster presented at The American Diabetes Association 66 <sup>th</sup> Scientific Session, Washington, DC (June 2006).	
PK	R30	TURNBULL, A. <i>et al.</i> , "Pharmacological inhibition of glycogen phosphorylase (GP) lowers plasma glucose in rat models of type 2 diabetes. (Integrated Physiology—Liver 1485-P)," <i>Diabetes</i> , Vol. 52 i6, American Diabetes Association (June 2003).	

Examiner Signature	<i>Patricia Lee</i>	Date Considered	7-22-07
--------------------	---------------------	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/780,948
				Filing Date	February 17, 2004
				First Named Inventor	Mark D. Erion
				Group Art Unit	1614
				Examiner Name	
Sheet	5	of	6	Attorney Docket Number	MET-016XDT

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
PC	R31	TURNER, R.C. <i>et al.</i> , "U.K. Prospective Diabetes Study 16: Overview of 6 Years' Therapy of Type II Diabetes, a Progressive Disease. (U.K. Prospective Diabetes Study Group)" <i>Diabetes</i> 44(11): 1249(10) American Diabetes Association (Nov. 1995).	
	R32	VAN POELJE, P.D. <i>et al.</i> , "Characterization of the Mechanism of Action and Antidiabetic Activity of MB06322, a Potent and Selective Inhibitor of Fructose 1,6-Bisphosphatase" <i>DIAEAZ</i> 52(2): A366, Journal of the American Diabetes Association Abstract No. 1523-P, American Diabetes Association (June 2004).	
	R33	VAN POELJE, P.D. <i>et al.</i> , "Comparative Metabolic Effects of a Novel Fructose 1,6-Bisphosphatase Inhibitor and Metformin in the Female ZDF Rat", Abstracts of the 41 <sup>st</sup> Annual Meeting of The European Association for the Study of Diabetes, Athens, Greece <i>Diabetologia</i> 48(1): A278 Abstract No. 765 Springer-Verlag (August 2005).	
	R34	VAN POELJE, P.D. <i>et al.</i> , "Inhibition of Fructose 1,6-Bisphosphatase Reduces Excessive Endogenous Glucose Production and Attenuates Hyperglycemia in Zucker Diabetic Fatty Rats" <i>Diabetes</i> 55: 1747-1754, American Diabetes Association (June 2006).	
	R35	VAN POELJE, P.D. <i>et al.</i> , "MB06322 (CS-917) Lowers Blood Glucose in Rodents by Inhibiting Both Hepatic and Renal Gluconeogenesis" <i>DIAEAZ</i> 55(1): A137, Journal of the American Diabetes Association Abstract No. 575-P, American Diabetes Association (June 2006).	
	R36	VAN POELJE, P.D. <i>et al.</i> , "Fructose 1,6-Bisphosphatase Inhibition Enhances the Antidiabetic Activity of Insulin Sensitizers in the ZDF Rat" <i>DIAEAZ</i> 52(2): A366, Journal of the American Diabetes Association Abstract No. 1524-P, American Diabetes Association (June 2004).	
	R37	VAN POELJE, P.D. "MB06322, a Potent Inhibitor of Gluconeogenesis, Attenuates Hyperglycemia without Causing Weight Gain or Hypoglycemia in Female Zucker Diabetic Fatty Rats" <i>DIAEAZ</i> 54(1): A124, Journal of the American Diabetes Association Abstract No. 503-P, American Diabetes Association (June 2005).	
	R38	WALKER, J. <i>et al.</i> , "Safety and Tolerability of Single Doses of CS-917, a Novel Gluconeogenesis Inhibitor, in Normal Male Volunteers" <i>DIAEAZ</i> 55(1): A463, Journal of the American Diabetes Association Abstract No. 2002-PO, American Diabetes Association (June 2006).	
PL	R39	WALKER, J. <i>et al.</i> , "Safety, Tolerability and Pharmacodynamics of Multiple Doses of CS-917 in Normal Volunteers" <i>DIAEAZ</i> 55(1): A464, Journal of the American Diabetes Association Abstract No. 2003-PO, American Diabetes Association (June 2006).	

Examiner Signature	<i>Mark D. Erion</i>	Date Considered	7-22-07
--------------------	----------------------	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

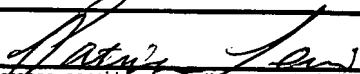
This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/780,948
				Filing Date	February 17, 2004
				First Named Inventor	Mark D. Erion
				Group Art Unit	1614
Examiner Name					
Sheet	6	of	6	Attorney Docket Number	MET-016XDT

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
PL	R40	YOSHIDA, T. <i>et al.</i> , "Comparison of Acute and Chronic Glucose-Lowering Effect of CS-917, a Fructose 1,6-Bisphosphatase (FBPase) Inhibitor, and Metformin in Rat Models of Type 2 Diabetes" poster presented at The American Diabetes Association 66 <sup>th</sup> Scientific Session, Washington, DC (June 2006).	
PL	R41	YOSHIDA, T. <i>et al.</i> , "CS-917, a Fructose 1,6-Bisphosphatase Inhibitor, Has Glucose-Lowering Effects in Cynomolgus Monkeys and Improves Postprandial Hyperglycemia in Goto-Kakizaki (GK) Rats" <i>DIAEAZ</i> 54(1): A116, Journal of the American Diabetes Association Abstract No. 472-P, American Diabetes Association (June 2005).	
	R42		
	R43		
	R44		
	R45		
	R46		
	R47		
	R48		
	R49		

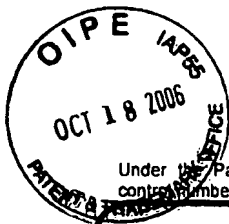
Examiner Signature		Date Considered	7-22-07
--------------------	---	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.





Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PTO/SB/08B (08-03)  
Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449B/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

## Complete if Known

Application Number	10/780,948
Filing Date	February 17, 2004
First Named Inventor	Mark D. Erion
Group Art Unit	1614
Examiner Name	
Attorney Docket Number	MET-016XDT

Sheet 1 of 1

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
<i>PK</i>	R1	VAN POELJE, PAUL D. <i>et al.</i> "Combination Therapy with Pioglitazone and a Fructose-1,6-bisphosphatase Inhibitor (MB06322; CS-917) Improves Glycaemic Control and Lactate Homeostasis in Male Zucker Diabetic Fatty (ZDF) Rates" poster presented at the European Association for the Study of Diabetes (EASD), Copenhagen, Denmark, September 14-17, 2006.	
	R2		
	R3		
	R4		
	R5		
	R6		
	R7		
	R8		
	R9		
	R10		
	R11		
	R12		

Examiner  
Signature

Date  
Considered

7-22-07

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.